

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1041952  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
**PERMIT NUMBER:** 4IN00204\*AD  
**STATION CODE:** 581  
**MONITORING PERIOD :** 2021-03-01 To: 2021-03-31  
**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:**

| PARAMETER   | Ammonia (NH3)<br>In Sludge   | Nitrogen<br>Kjeldahl, Total<br>In Sludge | Arsenic, Total<br>In Sludge | Cadmium, Total<br>In Sludge                                    | Copper, Total In<br>Sludge | Lead, Total In<br>Sludge                       | Nickel, Total In<br>Sludge |
|---|--|--|-----------------------------|--|----------------------------|--|----------------------------|
| PARAMETER CODE  | 00611  | 00627                                    | 01003                       | 01028  | 01043                      | 01052  | 01068                      |
| UNITS   | mg/kg  | mg/kg                                    | mg/kg                       | mg/kg  | mg/kg                      | mg/kg  | mg/kg                      |
| FREQUENCY   | 1/2 months   | 1/2 months                               | 1/2 months                  | 1/2 months   | 1/2 months                 | 1/2 months                                     | 1/2 months                 |
| SAMPLING TYPE   | Composite  | Composite                                | Composite                   | Composite  | Composite                  | Composite                                      | Composite                  |
| 2021-03-01  |  |  |                             |  |                            |  |                            |
| 2021-03-02  |  |  |                             |  |                            |  |                            |
| 2021-03-03  |  |  |                             |  |                            |  |                            |
| 2021-03-04  |  |  |                             |  |                            |  |                            |
| 2021-03-05  |  |  |                             |  |                            |  |                            |
| 2021-03-06  |  |  |                             |  |                            |  |                            |
| 2021-03-07  |  |  |                             |  |                            | AA5.0  | 3                          |
| 2021-03-08  | 25000  | 35700                                    | AA5.0                       | AA5.0  | 115                        |  |                            |
| 2021-03-09  |  |  |                             |  |                            |  |                            |
| 2021-03-10  |  |  |                             |  |                            |  |                            |
| 2021-03-11  |  |  |                             |  |                            |  |                            |
| 2021-03-12  |  |  |                             |  |                            |  |                            |
| 2021-03-13  |  |  |                             |  |                            |  |                            |
| 2021-03-14  |  |  |                             |  |                            |  |                            |
| 2021-03-15  |  |  |                             |  |                            |  |                            |
| 2021-03-16  |  |  |                             |  |                            |  |                            |
| 2021-03-17  |  |  |                             |  |                            |  |                            |
| 2021-03-18  |  |  |                             |  |                            |  |                            |
| 2021-03-19  |  |  |                             |  |                            |  |                            |
| 2021-03-20  |  |  |                             |  |                            |  |                            |
| 2021-03-21  |  |  |                             |  |                            |  |                            |
| 2021-03-22  |  |  |                             |  |                            |  |                            |
| 2021-03-23  |  |  |                             |  |                            |  |                            |
| 2021-03-24  |  |  |                             |  |                            |  |                            |
| 2021-03-25  |  |  |                             |  |                            |  |                            |
| 2021-03-26  |  |  |                             |  |                            |  |                            |
| 2021-03-27  |  |  |                             |  |                            |  |                            |
| 2021-03-28  |  |  |                             |  |                            |  |                            |
| 2021-03-29  |  |  |                             |  |                            |  |                            |
| 2021-03-30  |  |  |                             |  |                            |  |                            |
| 2021-03-31  |  |  |                             |  |                            |  |                            |
| Minimum   | 25000.0  | 35700.0                                  | 0.0                         | 0.0  | 115.0                      | 0.0  | 3.0                        |
| Maximum   | 25000.0  | 35700.0                                  | 0.0                         | 0.0  | 115.0                      | 0.0  | 3.0                        |
| Average   | 25000  | 35700                                    | 0                           | 0  | 115                        | 0  | 3                          |
| Count   | 1  | 1  | 1                           | 1  | 1                          | 1  | 1                          |
| Name of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. |  |                             | Signature of Responsible Official or Authorized Representative |                            | Submission Date/Time                           |                            |
| Jeffrey Williamson  |  |  |                             |  |                            | Certification Version Date<br>2021-04-20 08:04 |                            |

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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Original  
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**STATION CODE:** 581  
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**REPORTING LAB:** Masi  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:**

| PARAMETER   | Zinc, Total In Sludge  | Selenium, Total In Sludge | Sludge Fee Weight | Sludge Weight  | Mercury, Total In Sludge | Molybdenum In Sludge                           |  |
|---|--|---------------------------|-------------------|--|--------------------------|--|--|
| PARAMETER CODE  | 01093  | 01148                     | 51129             | 70316  | 71921                    | 78465  |  |
| UNITS   | mg/kg  | mg/kg                     | dry tons          | Dry Tons   | mg/kg                    | mg/kg  |  |
| FREQUENCY   | 1/2 months   | 1/2 months                | 1/2 months        | 1/2 months   | 1/2 months               | 1/2 months                                     |  |
| SAMPLING TYPE   | Composite  | Composite                 | Total             | Total  | Composite                | Composite                                      |  |
| 2021-03-01  |  |                           |                   |  |                          |  |  |
| 2021-03-02  |  |                           |                   |  |                          |  |  |
| 2021-03-03  |  |                           |                   |  |                          |  |  |
| 2021-03-04  |  |                           |                   |  |                          |  |  |
| 2021-03-05  |  |                           |                   |  |                          |  |  |
| 2021-03-06  |  |                           |                   |  |                          |  |  |
| 2021-03-07  | 184  | AA5.0                     | 34.1              | 34.1   | AA5.0                    | 2  |  |
| 2021-03-08  |  |                           |                   |  |                          |  |  |
| 2021-03-09  |  |                           |                   |  |                          |  |  |
| 2021-03-10  |  |                           |                   |  |                          |  |  |
| 2021-03-11  |  |                           |                   |  |                          |  |  |
| 2021-03-12  |  |                           |                   |  |                          |  |  |
| 2021-03-13  |  |                           |                   |  |                          |  |  |
| 2021-03-14  |  |                           |                   |  |                          |  |  |
| 2021-03-15  |  |                           |                   |  |                          |  |  |
| 2021-03-16  |  |                           |                   |  |                          |  |  |
| 2021-03-17  |  |                           |                   |  |                          |  |  |
| 2021-03-18  |  |                           |                   |  |                          |  |  |
| 2021-03-19  |  |                           |                   |  |                          |  |  |
| 2021-03-20  |  |                           |                   |  |                          |  |  |
| 2021-03-21  |  |                           |                   |  |                          |  |  |
| 2021-03-22  |  |                           |                   |  |                          |  |  |
| 2021-03-23  |  |                           |                   |  |                          |  |  |
| 2021-03-24  |  |                           |                   |  |                          |  |  |
| 2021-03-25  |  |                           |                   |  |                          |  |  |
| 2021-03-26  |  |                           |                   |  |                          |  |  |
| 2021-03-27  |  |                           |                   |  |                          |  |  |
| 2021-03-28  |  |                           |                   |  |                          |  |  |
| 2021-03-29  |  |                           |                   |  |                          |  |  |
| 2021-03-30  |  |                           |                   |  |                          |  |  |
| 2021-03-31  |  |                           |                   |  |                          |  |  |
| Minimum   | 184.0  | 0.0                       | 34.1              | 34.1   | 0.0                      | 2.0  |  |
| Maximum   | 184.0  | 0.0                       | 34.1              | 34.1   | 0.0                      | 2.0  |  |
| Average   | 184  | 0                         | 34.1              | 34.1   | 0                        | 2  |  |
| Count   | 1  | 1                         | 1                 | 1  | 1                        | 1  |  |
| Name of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. |                           |                   | Signature of Responsible Official or Authorized Representative |                          | Submission Date/Time                           |  |
| Jeffrey Williamson  |  |                           |                   |  |                          | Certification Version Date<br>2021-04-20 08:04 |  |

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**FACILITY:**  
**LOCATION:**

Emerald BioEnergy  
2881 Co Rd 156  
Cardington, OH 43315

**PERMIT NUMBER:**  
**MONITORING PERIOD :**

**4IN00204\*AD**  
**2021-03-01 To: 2021-03-31**

## PARAMETER COMMENTS:

| Station Code | Parameter Name | Parameter Code | Date | Unit | Comment |
|--------------|----------------|----------------|------|------|---------|
|--------------|----------------|----------------|------|------|---------|